GENERAL DYNAMICS

C4 Systems

Contractors on the Battlefield

Paul Moroz, Division Manager, Contract Management

February 18, 2004

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Decision Systems

Intelligent use of technologies for decision-making

- **Command and Control Integration**
- **Information Security**
- **Space and Terrestrial Communications**

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Deployment of Systems and Services

- **At the customers' request, employees were sent around the world to support the systems that we manufacture.**
  - ➤ Central Command (CENTCOM) deployable headquarters
  - U.S. Army Common Ground Stations
  - Tactical Airspace Integration Systems
  - Mobile Operations Centers
  - Iridium® Service and Support
  - Radio Products
  - Deployable Communications

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Superior decision-making to:
Conduct joint operations

- **US Central Command (CENTCOM) Deployable Headquarters**
  - ➤ Designed the media briefing room
  - Accompanied the shelters for complete integration and acceptance by the customer and personally by Tommy Franks.

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Superior decision-making to:
Save lives

Description:

The Common Ground Station is the U.S. Army's most advanced tactical ground station, providing real-time, multi-sensor command, control, communications, computers, intelligence, surveillance and reconnaissance capabilities.

Benefits:

- **Real-time picture of the entire battlefield**
- **Multi-INT situational awareness**
- **Used for targeting, force protection, route studies and mission planning**

Primary Users:

- **U.S. Army**
- **U.S. Marine Corps**

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News Clips – USA Today

In the early morning hours on March 27 under the cover of a sandstorm, a large Iraqi column tried to attack the 3rd Infantry Division 80 miles south of Baghdad. However, the Iraqi's did not count on the presence of Joint STARS. The Joint STARS aircraft detected the Iraqi movement and called in airstrikes that decimated the Iraqi column just miles from the lead elements of the 3rd Infantry Division.

***USA Today* – April 2003**

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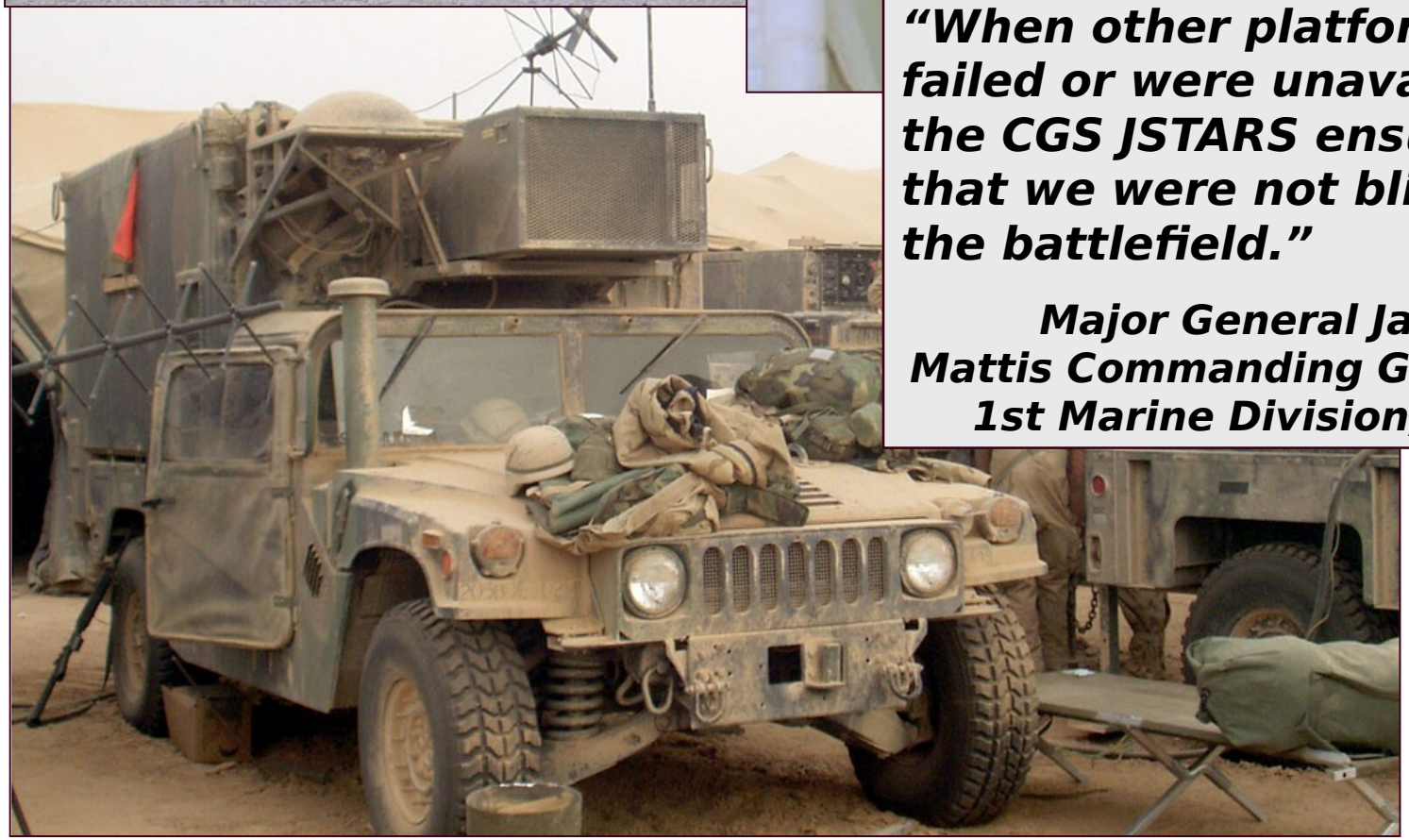

"When other platforms failed or were unavailable the CGS JSTARS ensured that we were not blind on the battlefield."

Major General James N. Mattis Commanding General, 1st Marine Division, USMC

Superior decision-making to:
Control the airspace

Description:

The Tactical Airspace Integration Systems (TAIS) is the most advanced battlefield airspace management system in the Department of Defense.

Benefits:

- **Provides complete view of both air and ground battlespace**
- **Presents a three dimensional view of the airspace**
- **Interoperates with joint, civil aviation and coalition forces**
- **Reduces friendly-fire incidents**

Primary Users:

- **U.S. Army**

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News Clips – Huntsville, AL

Somewhere in the Iraqi desert, a soldier is sitting in the back of a customized Humvee, using a higher-powered computer program to direct scores of helicopters, fighter jets and transports flying over the battlefield. Only months ago, that high-tech Humvee rolled out of a bay at General Dynamics Decision Systems in Huntsville… (equipped with) the Tactical Airspace Integration System or TAIS.

***Huntsville Times* – April 2003**

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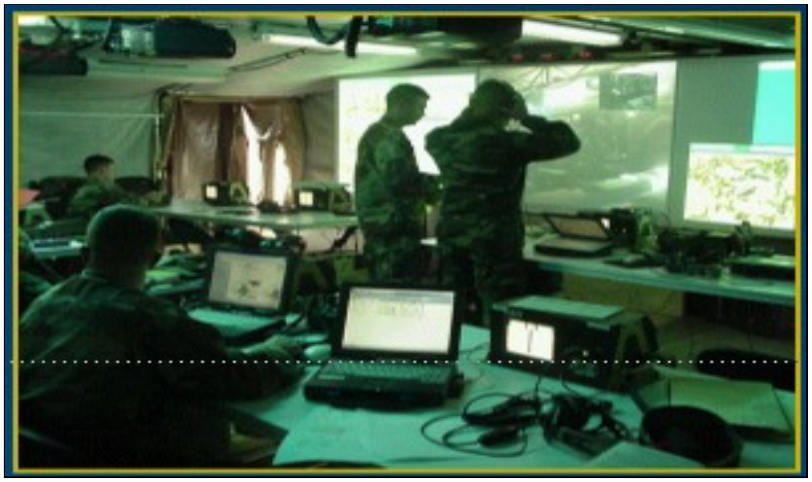
Tactical Airspace Integration System (TAIS)

Superior decision-making to:
Dominate the battlefield

Description:

Mobile Operations Centers provide a commander with an integrated, comprehensive view of the battlespace through integrated communications systems and user-friendly, large scale displays.



Benefits:

- **Built for on the move operations**
- **Works with legacy, or existing systems**
- **Utilizes commercial, off-the-shelf equipment**

Primary Users:

- **U.S. Army**
- **U.S Marine Corps**
- **U.S. Air Force**

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News Clips – Huntsville, AL

These TOCS give the war fighter an incredible ability to see what is going on the battlefield in real time. It lets me see where I am, where the bad guys are, and what I need to do to influence the situation. 'Situational awareness' are the key words. We're getting great reports from the field on their performance.

Huntsville Times

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Mobile Operations Centers

UNCLASSIFIED
Combat Air Operations Center

Superior decision-making to:

Communicate seamlessly

Description:

Decision Systems is an Iridium® Worldwide Service Provider. Using enhanced mobile satellite services, authorized government users communicate securely over the Iridium network … anytime.. from anywhere.

Benefits:

- **Secure, global communications**
- **Direct connection to data services through the Iridium network including: text mode e-mail, internet/intranet connectivity, remote telemetry, field deployed command and control and more.**

Primary Users:

- **Defense Information Systems Agency**
- **U.S. Armed Forces**
- **NATO and Coalition Partners**

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News Clips – Rockville, MD

An EMSS system can be found wherever troops are deployed in the world. "EMSS reached a milestone in January with more than one million call minutes, our highest monthly usage total since inception. The majority of the traffic is in direct support to deployed warfighters." Ponturiero said.

-Augustine Ponturiero, chief of operations for EMSS at Defense Information Services Agency

Military Information Technology Magazine
May 2003

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Superior decision-making to:
Seek and find

Description:

HOOK2™ GPS Combat Search and Rescue Radio System provides direct communication between rescuers and downed personnel.

Benefits:

- **GPS and Encrypted 2-Way Messaging**
- **Software-definable technology for field upgrades**
- **Interoperable with NATO and Coalition Partners**

Primary Users:

- **Army, Navy, Air Force, Marines**
- **Special Forces**
- **International Governments**

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News Clips – Scottsdale, AZ

Lorenz was dispatched overseas to provide technical support on General Dynamics' combat search and rescue equipment.

That included travel to 10 countries, including Afghanistan, Pakistan, Kuwait and Saudi Arabia. She also supported personnel on all the ships and aircraft carriers in the Persian Gulf.

***East Valley Tribune* – July 2003**

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Superior decision-making to:

Communicate on the move

Description:

Theater Deployable Communications is a system that lets you connect virtually any type of communications device (i.e. radio, phone, satellite, internet, walkie talkie) to any other type of communications device or channel, and communicate clearly.

Benefits:

- **GPS and Encrypted 2-Way Messaging**
- **Software-definable technology for field upgrades**
- **Interoperable with NATO and Coalition Partners**

Primary Users:

- **U.S. Air Force**
- **Government Agencies**
- **First Responders**

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News Clips – Scottsdale, AZ

Theater Deployable Communications (TDC) has provided on-scene commanders and support personnel with fast, reliable communications vital to the success of modern command and control, and intelligence, surveillance and reconnaissance systems, such as Predator and Global Hawk.

Jim Binniker - Directorate of Communications and Information Systems, Air Combat Command Langley AFB, Va.

Air Force Communications Agency Website

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Continuous Operations

- 24x7 Operations during Entire War
  - Over 98% Operational Availability
  - Over 46,000 total mission hours
  - Continuous Multi-INT Operations

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Issues for Contractors

- Anthrax Shots
- # of hours to properly support the war-fighters (24/7)
- Living conditions
- Travel in and out of country
- Government ID cards
- Available staffing
- Necessary paper work – passports, visa, etc.
- Transportation within theatre

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Issues for Contractors – cont.

- Spares availability
- Dangerous conditions
- Contracts in place with all applicable T&C's

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Business Guide for Iraq

Soon after the removal of Hussein's regime, Coalition Forces established the **Coalition Provisional Authority (CPA)** as a transitional administration to restore security in Iraq, create institutions for representative governance, and facilitate economic recovery.

In July 2003, the CPA established the Governing Council of Iraq. With broad membership from across Iraqi society, its 24 members named Iraqi Ministers, established budgets, and represent Iraq internationally. On November 15, 2003, the CPA and Governing Council agreed to end the occupation, dissolve the CPA, and restore Iraqi sovereignty by June 30, 2004. The Governing Council will lay the basis for a transitional Iraqi government, fully elected representation to a constitutional convention, and the establishment of a representative Iraqi government by the end of 2005.

This guide serves to report on the considerable progress and opportunities in Iraq's economic reconstruction. The U.S. Government, including the U.S. Department of Commerce, continues to work with Coalition partners, international organizations, and the business community to facilitate economic recovery through reconstruction contracts and private investment.

Prime Contracts

The CPA recently created a "Program Management Office" (PMO) that is responsible for all procurement funded by the new U.S. Government appropriation of over $18.6 billion for Iraq reconstruction. All contracting activities are reported on PMO's new Web site (www.rebuilding-iraq.net).

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http://www.export.gov/iraq/index.html

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